

CLAIMS

What is claimed is:

- 5 1. A method for differential dynamic content delivery, the method comprising:
- providing a session document for a presentation, wherein the session
 document includes a session grammar and a session structured document;
- 10 receiving a prerecorded presentation control instruction;
- selecting from the session structured document a classified structural element
 in dependence upon the prerecorded presentation control instruction and in
 dependence upon user classifications of a user participant in the presentation;
- 15 and
- presenting the selected structural element to the user.
2. The method of claim 1 wherein the prerecorded presentation control
20 instruction has an associated time stamp.
3. The method of claim 1 further comprising creating a prerecorded presentation
 session, including repeatedly:
- recording a presentation control instruction; and
- 5 recording a time stamp in association with the presentation control
 instruction.
4. The method of claim 3 further comprising creating the presentation control
 instruction, including:

5 receiving from a user participating in the presentation a key phrase and optional parameters for invoking a presentation action; and

parsing the key phrase and parameters against a voice response grammar into a presentation control instruction.

5. The method of claim 1 wherein:

the prerecorded presentation control instruction includes a presentation action identifier and optional parameters; and

5 selecting a classified structural element includes selecting a classified structural element in dependence upon the presentation action identifier and the parameters.

6. The method of claim 1 wherein selecting a classified structural element further comprises selecting a classified structural element having an associated classification identifier that corresponds to the user classification.

7. The method of claim 1 wherein presenting the selected structural element to the user further comprises:

selecting a data communications protocol for the presentation;

5 inserting the selected structural element in a data structure appropriate to the data communications protocol; and

10 transmitting the data structure to the user according to the data communications protocol.

8. The method of claim 1 further comprising creating a session document from a presentation document, including:
- 5 identifying a presentation document for a presentation, the presentation document including a presentation grammar and a structured document having structural elements classified with classification identifiers;
- identifying a user participant for the presentation, the user having a user profile comprising user classifications; and
- 10 filtering the structured document in dependence upon the user classifications and the classification identifiers.
9. The method of claim 8 wherein filtering the structured document comprises:
- 5 extracting, from the structured document, structural elements having classification identifiers corresponding to the user classifications; and
- writing the extracted structural elements into a session structured document in the session document.
10. The method of claim 9 further comprising filtering the presentation grammar, in dependence upon the extracted structural elements, into a session grammar in the session document.
11. The method of claim 8 further comprising creating a presentation document, including:
- 5 creating, in dependence upon an original document, a structured document comprising one or more structural elements;

classifying a structural element of the structured document according to a presentation attribute; and

10 creating a presentation grammar for the structured document, wherein the presentation grammar for the structured document includes grammar elements each of which includes an identifier for at least one structural element of the structured document.

12. The method of claim 11 wherein classifying a structural element comprises:

identifying a presentation attribute for the structural element;

5 identifying a classification identifier in dependence upon the presentation attribute; and

inserting the classification identifier in association with the structural element in the structured document.

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13. The method of claim 11 wherein creating a presentation grammar for the structured document comprises:

identifying the content type of the original document;

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selecting, in dependence upon the content type, a full presentation grammar from among a multiplicity of full presentation grammars; and

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filtering the full presentation grammar into a presentation grammar for the structured document in dependence upon the structural elements of the structured document.

14. A system for differential dynamic content delivery, the system comprising:
- 5 means for providing a session document for a presentation, wherein the session document includes a session grammar and a session structured document;
- means for receiving a prerecorded presentation control instruction;
- 10 means for selecting from the session structured document a classified structural element in dependence upon the prerecorded presentation control instruction and in dependence upon user classifications of a user participant in the presentation; and
- 15 means for presenting the selected structural element to the user.
15. The system of claim 14 wherein the prerecorded presentation control instruction has an associated time stamp.
16. The system of claim 14 further comprising means for creating a prerecorded presentation session, including:
- 5 means for recording a presentation control instruction; and
- means for recording a time stamp in association with the presentation control instruction.
17. The system of claim 16 further comprising means for creating the presentation control instruction, including:
- means for receiving from a user participating in the presentation a key phrase

5 and optional parameters for invoking a presentation action; and

 means for parsing the key phrase and parameters against a voice response
 grammar into a presentation control instruction.

18. The system of claim 14 wherein:

 the prerecorded presentation control instruction includes a presentation action
 identifier and optional parameters; and

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 means for selecting a classified structural element includes means for
 selecting a classified structural element in dependence upon the presentation
 action identifier and the parameters.

19. The system of claim 14 wherein means for selecting a classified structural
 element further comprises means for selecting a classified structural element
 having an associated classification identifier that corresponds to the user
 classification.

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20. The system of claim 14 wherein means for presenting the selected structural
 element to the user further comprises:

 means for selecting a data communications protocol for the presentation;

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 means for inserting the selected structural element in a data structure
 appropriate to the data communications protocol; and

 means for transmitting the data structure to the user according to the data
10 communications protocol.

21. The system of claim 14 further comprising means for creating a session

document from a presentation document, including:

5 means for identifying a presentation document for a presentation, the presentation document including a presentation grammar and a structured document having structural elements classified with classification identifiers;

10 means for identifying a user participant for the presentation, the user having a user profile comprising user classifications; and

means for filtering the structured document in dependence upon the user classifications and the classification identifiers.

22. The system of claim 21 wherein means for filtering the structured document comprises:

5 means for extracting, from the structured document, structural elements having classification identifiers corresponding to the user classifications; and

means for writing the extracted structural elements into a session structured document in the session document.

23. The system of claim 22 further comprising means for filtering the presentation grammar, in dependence upon the extracted structural elements, into a session grammar in the session document.

24. The system of claim 21 further comprising means for creating a presentation document, including:

5 means for creating, in dependence upon an original document, a structured document comprising one or more structural elements;

means for classifying a structural element of the structured document according to a presentation attribute; and

10 means for creating a presentation grammar for the structured document, wherein the presentation grammar for the structured document includes grammar elements each of which includes an identifier for at least one structural element of the structured document.

25. The system of claim 24 wherein means for classifying a structural element comprises:

means for identifying a presentation attribute for the structural element;

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means for identifying a classification identifier in dependence upon the presentation attribute; and

10 means for inserting the classification identifier in association with the structural element in the structured document.

26. The system of claim 24 wherein means for creating a presentation grammar for the structured document comprises:

15 means for identifying the content type of the original document;

means for selecting, in dependence upon the content type, a full presentation grammar from among a multiplicity of full presentation grammars; and

20 means for filtering the full presentation grammar into a presentation grammar for the structured document in dependence upon the structural elements of the structured document.

27. A computer program product for differential dynamic content delivery, the computer program product comprising:

5 a recording medium;

means, recorded on the recording medium, for providing a session document for a presentation, wherein the session document includes a session grammar and a session structured document;

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means, recorded on the recording medium, for receiving a prerecorded presentation control instruction;

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means, recorded on the recording medium, for selecting from the session structured document a classified structural element in dependence upon the prerecorded presentation control instruction and in dependence upon user classifications of a user participant in the presentation; and

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means, recorded on the recording medium, for presenting the selected structural element to the user.

28. The computer program product of claim 14 wherein the prerecorded presentation control instruction has an associated time stamp.
29. The computer program product of claim 14 further comprising means, recorded on the recording medium, for creating a prerecorded presentation session, including:
- 5 means, recorded on the recording medium, for recording a presentation control instruction; and

means, recorded on the recording medium, for recording a time stamp in association with the presentation control instruction.

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30. The computer program product of claim 16 further comprising means, recorded on the recording medium, for creating the presentation control instruction, including:

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means, recorded on the recording medium, for receiving from a user participating in the presentation a key phrase and optional parameters for invoking a presentation action; and

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means, recorded on the recording medium, for parsing the key phrase and parameters against a voice response grammar into a presentation control instruction.

31. The computer program product of claim 14 wherein:

the prerecorded presentation control instruction includes a presentation action identifier and optional parameters; and

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means, recorded on the recording medium, for selecting a classified structural element includes means, recorded on the recording medium, for selecting a classified structural element in dependence upon the presentation action identifier and the parameters.

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32. The computer program product of claim 14 wherein means, recorded on the recording medium, for selecting a classified structural element further comprises means, recorded on the recording medium, for selecting a classified structural element having an associated classification identifier that corresponds to the user classification.

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33. The computer program product of claim 14 wherein means, recorded on the recording medium, for presenting the selected structural element to the user further comprises:

5 means, recorded on the recording medium, for selecting a data communications protocol for the presentation;

means, recorded on the recording medium, for inserting the selected structural element in a data structure appropriate to the data communications
10 protocol; and

means, recorded on the recording medium, for transmitting the data structure to the user according to the data communications protocol.

34. The computer program product of claim 14 further comprising means, recorded on the recording medium, for creating a session document from a presentation document, including:

5 means, recorded on the recording medium, for identifying a presentation document for a presentation, the presentation document including a presentation grammar and a structured document having structural elements classified with classification identifiers;

10 means, recorded on the recording medium, for identifying a user participant for the presentation, the user having a user profile comprising user classifications; and

means, recorded on the recording medium, for filtering the structured
15 document in dependence upon the user classifications and the classification identifiers.

35. The computer program product of claim 21 wherein means, recorded on the recording medium, for filtering the structured document comprises:

5 means, recorded on the recording medium, for extracting, from the structured document, structural elements having classification identifiers corresponding to the user classifications; and

10 means, recorded on the recording medium, for writing the extracted structural elements into a session structured document in the session document.

36. The computer program product of claim 22 further comprising means, recorded on the recording medium, for filtering the presentation grammar, in dependence upon the extracted structural elements, into a session grammar in the session document.

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37. The computer program product of claim 21 further comprising means, recorded on the recording medium, for creating a presentation document, including:

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means, recorded on the recording medium, for creating, in dependence upon an original document, a structured document comprising one or more structural elements;

10 means, recorded on the recording medium, for classifying a structural element of the structured document according to a presentation attribute; and

15 means, recorded on the recording medium, for creating a presentation grammar for the structured document, wherein the presentation grammar for the structured document includes grammar elements each of which includes an identifier for at least one structural element of the structured document.

38. The computer program product of claim 24 wherein means, recorded on the recording medium, for classifying a structural element comprises:

5 means, recorded on the recording medium, for identifying a presentation attribute for the structural element;

means, recorded on the recording medium, for identifying a classification identifier in dependence upon the presentation attribute; and

10 means, recorded on the recording medium, for inserting the classification identifier in association with the structural element in the structured document.

39. The computer program product of claim 24 wherein means, recorded on the recording medium, for creating a presentation grammar for the structured document comprises:

5 means, recorded on the recording medium, for identifying the content type of the original document;

means, recorded on the recording medium, for selecting, in dependence upon the content type, a full presentation grammar from among a multiplicity of
10 full presentation grammars; and

means, recorded on the recording medium, for filtering the full presentation grammar into a presentation grammar for the structured document in dependence upon the structural elements of the structured document.

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